

APR 03 2007

Application/ Control No: 10/523,890
Examiner: ELCENKO, ERIC J.REMARKS

Claims 1-3 were rejected under 35 U.S.C. § 103(a) as being unpatentable over Schuster et al.(Schuster), U.S. Patent 6,954,454, in view of Wiedeman et al. (Wiedeman), U.S. Patent 6,233,463.

Reconsideration is requested.

Claim 1 has been amended to point out that the (C1,C4) and (C2, C41) linking means are bidirectional satellite radio bridges. New claim 6 is a combination of canceled claim 4 and claim 1. Claim 7 is claim 6 with the further limitation that the bidirectional satellite radio bridges are low power consumption units that are supplied with power by a solar power system as described in the specification at paragraphs [0029] to [0032]. This points out non-obvious subject matter because this concept is not disclosed in the references of record.

The Schuster patent teaches a network for controlling mobile or fixed peripheral devices. Schuster does not teach or suggest the use of bi-directional radio bridges to connect the local network exchange between the local user and the first local exchange as well as between the local exchange and the network access. The Weideman patent teaches a communications system that utilizes satellites to transmit information on a network using a dual mode user terminal (i.e. a satellite phone with ground network capacity). Col 10, line 55 et. seq.

There is no teaching in Schuster that would direct a skilled artisan to the Weideman patent because the Weideman patent is not concerned with a telecommunications network that controls mobile or fixed peripheral devices. Weidman is limited to the disclosure of a satellite terrestrial mobile terminal roaming system which does not telecommunications network. Applicant submits that there is nothing in Weideman or Schuster that would direct the modification of the Schuster patent as suggested by the Examiner. The Schuster patent is classified under the U.S. classification scheme as "combined circuit switching and packet switching". This differs from the Wiedeman patent, which is classified as "telecommunication

Application/ Control No: 10/523,890
Examiner: ELCENKO, ERIC J.

transceiver." The Wiedeman patent speaks solely to the use of a satellite communication system; it does not direct itself to IP networking at all. Specifically, there is no mention of anything other than telephony communications mentioned in the Wiedeman patent.

Even if there were sufficient motivation to combine the Schuster and Wiedman patents, which Applicant does not concede, the resulting combination would still fail to recite all the elements of the rejected claims.

New claim 6 is a combination of claims 1 and canceled claim 4. The Schuster patent does not fully describe the present invention even when combined with the Wiedman patent. Neither of the cited patents points out the use of a plurality of low power satellite bridges that are powered by solar power systems as pointed out in new claim 7. This configuration allows the network to be free of costly infrastructure. Additionally, the system as pointed out by new claim 7 lowers the overall cost of the system since there are few, if any, physical connections between the layers of the network. Most importantly, the solar power system enables the invention to operate independently of the existing power grid. The system as described in the present invention provides a redundancy in both IP routing and power management. In the case of an incident, such as a power outage or natural disaster, the still functioning nodes can provide IP routing services for individual users without grid based electricity.

The Examiner has rejected claims 4 and 5 as unpatentable over Schuster, in view of Wiedeman, in further view of Bosch et al. (Bosch) U.S. Patent No.: 5,839,053.

Reconsideration is requested.


Claim 4 has been canceled and is no longer at issue. Claim 5 is dependent on claim 1 and for the reasons set forth above, claim 5 is also patentable over the combination of Schuster and Wiedeman. The Bosch patent is only concerned with a system for transmitting radio signals from mobile terminals to geostationary satellites. Nothing in Bosch make obvious the claimed telecommunication network system. In addition there is no teaching or suggestion in Bosch that directs the skilled artisan to

Application/ Control No: 10/523,890
Examiner: ELCENKO, ERIC J.

combine that patent with the Schuster and Wiedeman patents. For these reasons, it is requested that this ground of rejection be withdrawn.

Based on the above, Applicants respectfully submit that the claims of the present invention are in proper form for allowance. Favorable consideration and early allowance are therefore respectfully requested and earnestly solicited.

Respectfully Submitted,


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